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TUESDAY 18 JULY [redacted]

ENZYME INDUCTION AND INHIBITION (cont)

Abstract

153 (P4) **Interaction of valproic acid and some of its analogues with microsomal epoxide hydrolase**
D Robins, P Wedlund, S Elsberg, F Oesch & H Thomas (Lexington, USA & Mainz, FRG)

154 (P5) Measurement of hepatic cytochrome P450, epoxide hydratase and glutathione *S*-transferase in singly or gang-housed CD1 mice fed 0.05% phenobarbitone in the diet for 90 days
D F Newton, V Stuart, A R Waller, M Jordan & R W James (Huntingdon, UK)

155 (P6) The effect of α-cyano pyrethroids on one index of hepatic microsomal enzyme induction
A Anadon, M R Martinez-Larranaga, M J Diaz, P Bringas & C Velez (Madrid, Spain)

156 (P7) Metabolism and toxicity of thioamides
M J Ruse & R H Waring (Birmingham, UK)

157 (P8) A study of hepatic microsomal enzyme induction in beagles treated orally with 450J91-S for 52 weeks
P Burford, A R Waller, L F Chasseaud, C Gopinath, Y Harada, R J Harling & R W James (Osaka, Japan & Huntingdon, UK)

158 (P9) Effect of subacute exposure to DDT and chlordane on pharmacokinetics of chloramphenicol in rabbits
A Sankaranarayanan, Y Chugh & P L Sharma (Chandigarh, India)

159 (P10) Diethylamide of nicotinic acid activation of rat liver enzymes participating in hydroxylation and conjugation of xenobiotics
P I Lukienko, M I Bushma, L F Legonkova & L B Zavodnik (Grodno, USSR)

160 (P11) Induction and inhibition of rat liver cytochrome(s) P450 by an imidazole fungicide (prochloraz)
J C Lhuguenot, L Laignelet, J F Narbonne & J L Riviere (Dijon, Marcy l'Etoile & Talence, France)

161 (P12) Lipid peroxidation and benzo(*a*)pyrene activation to mutagenic metabolites: *in vivo* influence of vitamins A, E, C and glutathione in both dietary vitamin A sufficiency and deficiency
C Colin, J F Narbonne, M L Migaud, P Grolier & P Cassand (Talence, France)

162 (P13) Induction of cytochrome P450 and xenobiotic metabolising enzymes in rats exposed to a petroleum crude oil
A A Khan, R W Coppock, M M Schuler & L E Lillie (Vegreville, Canada)

163 (P14) Studies on the interaction of cimetidine with rat liver cytochrome P450
S P Faux, R D Combes & F De Matteis (Carshalton & Musselburgh, UK)

164 (P15) Suicidal inactivation of cytochrome P450 by halothane
M Manno, S Cazzaro & M Rezzadore (Padova, Italy)

165 (P16) Regulation of hepatic monooxygenation and glucuronidation by oxygen in the perfused rat liver
R G Thurman, Y R Wu, P E Coney, F C Kauffman & S Belinsky (Chapel Hill, USA)

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TUESDAY 18 JULY

ENZYME INDUCTION AND INHIBITION (cont)

Abstract

166 (P17) **Assay of hepatic microsomal monooxygenases by use of 7-alkoxyquinolines**
R T Mayer, K J Netter, F Heubel & A Buchheister (Orlando, USA & Marburg, FRG)

167 (P18) Major increase of cotinine-directed pathways during induction of nicotine metabolism by phenobarbitone
H Foth, H Looschen & G F Kahl (Gottingen, FRG)

168 (P19) Biochemical characterisation of microsomal haem oxygenase in the small intestinal epithelium
D Rosenberg & A Kappas (New York, USA)

169 (P20) Induction of cytochrome P450(PCN) by non-steroidal compound, M79193, in rat liver microsomes
F Sagami, K Tsukidate, T Igarashi, T Horie, M Kitada, T Obata, H Sadano & T Omura (Ibaraki, Sapporo & Fukuoka, Japan)

170 (P21) Inducibility of cytochrome P450 dependent oxidation reactions in pure and mixed primary cultures of adult rat hepatocytes - *in vivo/in vitro* comparison
C Niemann, L Richert, M A Ivanov, A Bouant, C Bensoussan, M Lafont, C Meleion & A Cordier (Vitry sur Seine, France)

171 (P22) Differential effects on hepatic, renal and pulmonary mixed function oxidase activities in cattle exposed to a petroleum crude oil
A A Khan, R W Coppock, L E Lillie, M M Schuler & J Bystrom (Vegreville, Canada)

172 (P23) Circadian rhythm of liver parameters (cellular structures, mitotic activity, glycogen and lipids in liver and serum) during 3 consecutive cycles in phenobarbitone-treated rats
A Kast, J Nishikawa, T Yabe, H Nanri & H Albert (Ingleheim, FRG)

173 (P24) Peroxisome proliferation caused by cinnamyl anthranilate (CA) is due to the intact ester
A Viswalingam & J Caldwell (London, UK)

174 (P25) 2-Ethylhexanoic acid inhibits urea synthesis and stimulates carnitine acetyltransferase activity in rat liver mitochondria
S Kroger, A Manninen & J Liesivuori (Kuopio, Finland)

ENDOCRINE TOXICOLOGY (Abstracts 175-185)

Chairmen: P Preziosi (Rome, Italy) and H Azouri (Villejuif, France)

Posters will be displayed in the Main Foyer. The Discussion Group will be held in the Regent Room, Grand Hotel

175 (P27) Central modulation of hydroxurea-induced adrenocortical activation
P Preziosi, M Vacca, R Del Carmine & P Navarra (Rome & Sassari, Italy)

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ENDOCRINE TOXICOLOGY (cont)

Abstract

176 (P28) Aziridine derivatives of biogenic amines as inhibitors of steroid biogenesis
K J van der Merwe, C M Moorhoff, P Swart, S S de Kock, E de Villiers & C de Villiers (Stellenbosch, South Africa)

177 (P29) Biochemical and morphological changes indicative of thyroid hyperactivity in rodents following treatment with hypolipidaemic drugs
S C Price, A J Spencer, C T Easton, R Hinton, F W Bonner & P Grasso (Guildford & Alnwick, UK)

178 (P30) *In vivo* effects of cisplatin and carboplatin on Leydig cell function*
H Azouri, J M Bidart, C Fnaz, A Lefevre, M Pallardy & C Bohoun (Villejuif, Chatenay-Malabry & Montrouge, France)*

179 (P31) Irreversible binding and toxicity of 3-methylsulphonyl-DDE in the adrenal cortex of perinatal mice
J Jonsson, B-O Lund, A Bergman & L Brandt (Uppsala & Stockholm, Sweden)*

180 (P32) Inhibition of raw soya flour-induced pancreatic hyperplasia by a cholecystokinin antagonist
S Sundaram & A D Dayan (London, UK)

181 (P33) Are changes in pituitary cells of aged rats related to the development of neoplasia in endocrine tissues? An immunocytochemical study
P J Haylett & C J Powell (London, UK)

182 (P34) Differential changes in thyroxine (T4) and triiodothyronine (T3) serum concentrations in rats following administration of several thyroid-system interfering agents. Study of their effects on hepatic and renal thyroid hormone metabolism
V. de Sandro, E Rochert, M Chevrier, K Zilliharde, C Melcion & A Cordier (Vitry sur Seine, France)

183 (P35) The eosinophilic cell in the islet of Langerhans of the beagle
K Tanaka, K Okazaki, T Nagata, S Oneda, H Fujimura & R Nagata (Tokyo & Kagoshima, Japan)

184 (P36) The interference of polychlorinated biphenyls (PCB) with steroidogenesis in male guinea pig adrenal microsomes
A Yawetz & D Goldman (Tel Aviv, Israel)

185 (P37) Thyroid toxicity in rats treated with the histamine H_1 receptor antagonist SK&P 93944 - an insight into its mechanism of action
A Poole, R Jones, D Pritchard & T Leonard (Welwyn Garden City, UK)

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TUESDAY 18 JULY

GENOTOXIC CARCINOGENESIS (Abstracts 186-206)

Chairmen: H M Bolt (Dortmund, FRG) and A Sivak (Cambridge, USA)

Posters will be displayed in the **Main Foyer**. The Discussion Group will be held in the **Edinburgh Room, Metropole Hotel**

Abstract

186 (P38) The pharmacokinetics and DNA binding of urethane in mice
K Okudaira, K Morimoto & A Takahashi (Tokyo, Japan)

187 (P39) Oral carcinogenicity study with ipriflavon in mice and rats
S Eick, L Siklósi, G Bouis, E Csányi, K Nagy, J Somorai & I Polgár (Budapest, Hungary)

188 (P40) Specific reactivity of adnexal cells of bald rats to chemical carcinogens
M Inaba, Y Mishima & T Kobayashi (Kawagoe & Kobe, Japan)

189 (P41) Oncogene activation in experimentally-induced lung tumours
M E Frazier, B J Kelsay, L L Whiting, S R Peterson & G L Stiegler (Richland, USA)

190 (P42) Acute toxicity, genotoxicity and dermal carcinogenicity assessment of isooctylacrylate
S C Gordon, D D Zinkhemian & P D Griffith (St Paul, USA)

191 (P43) Multi-level studies of mechanisms of tumour initiation
D D Mahlum, D B Mann & D L Spencer (Richland, USA)

192 (P44) Hydroxysteroid sulphotransferases catalyze formation of highly mutagenic sulphuric esters of carcinogenic hydroxymethylarenes
T Watabe, K Ogura, H Okuda & A Iiratsuka (Tokyo, Japan)

193 (P45) Modifying effects of soybean trypsin inhibitor on carcinogen-induced pancreatic alterations in rats
Y Hayashi, T Takahashi & F Furukawa (Tokyo, Japan)

194 (P46) Biliary excretion of the pro-mutagen 2-amino-3,4-dimethylimidazo (4,5-f)quinoline (MeIQ) and intestinal nuclear toxicity in the rat
A J Percy & J K Chipman (Birmingham, UK)

195 (P47) Binding of the epoxides of ethylene and vinyl chloride to nucleic acids
H M Bolt, U Fost, H Peter, J Hegenmann & B Marczynski (Dortmund, FRG)

196 (P48) Benzene metabolite-DNA nucleoside interaction: formation of a hydroquinone-dAMP adduct
R Snyder & R L Guy (Piscataway, USA)

197 (P49) Activation of the food mutagen MeIQx by cytochrome P450 and non-P450 enzyme systems
N J Gooderham, J Morgan, G Srinivasan, A R Boobis & D S Davies (London, UK)

198 (P50) Administration of the food derived carcinogen MeIQx to mice: urine analysis
N J Gooderham, J C Rice, A R Boobis & D S Davies (London, UK)

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OBJAN 91

TUESDAY 18 JULY

GENOTOXIC CARCINOGENESIS (cont)

Abstract

199 (P51) Human cytochrome P450d content: a determinant of dietary cancer risk?
B P Murray, D Sesardic, D S Davies & A R Boobis (London, UK)

200 (P52) Inhibitory effects of sodium selenite, selenomethionine, alpha-tocopherol and beta-carotene on diethylnitrosamine and 2-acetylaminofluorene-induced hepatocarcinogenesis in rat
S Kawauchi, K Sasagawa, T Kurihara & K Komiya (Tokyo, Japan)

201 (P53) Species differences in crosslinking activity of butadiene between rats and mice
R R Vangala, H M Bolt & R J Laib (Dortmund, FRG)

202 (P54) Carcinogenicity of asphalt fume fractions following skin application in C3H/HeJ and Sencar mice
A Sivak, K Beltis, R Latta, K Menzies, A Ross, D Lynch, R Nemmeier, B Belinky, S Simon & R Salomon (Cambridge & Cincinnati, USA)

203 (P55) Oncogene amplification by chemical carcinogens in cultured human fibroblasts
B van Agen, F ten Hoor, J ten Kate, P Meuwers, F Bosman & J C S Kleinjans (Maastricht, The Netherlands)

204 (P56) Chloroform bioactivation in colon mucosa from rat and man
J Keizer, E Testai & L Vittozzi (Rome, Italy)

205 (P57) Dosimetry of ethenobase adducts in DNA of several organs from vinyl chloride (VC)-exposed rats
F Ciroussel, A Barbin & H Bartsch (Lyon, France)

206 (P58) Collagen matrix changes are expressions of carcinogenic action in mouse liver
F Steinbach, J Stengård, E A Saaniemi & G M Williams (Oulu, Finland & Valhalla, USA)

TUESDAY

ENVIRONMENTAL AND ECOTOXICOLOGY (Abstracts 207-225)

Chairmen: P E Bernau (Berkeley, USA) and D Calamari (Milan, Italy)

Posters will be displayed in the Newinson Hall. The Discussion Group will be held in the Gloucester Room, Metropole Hotel

207 (P69) Effects of the insecticide Thiodan 35 (endosulfan) on some phase 1 and phase 2 enzymes in gut-free soft tissues of garden chafer (*Phyllopertha horticola*)
E Egaas, J U Skåre & E G Jensen (Ås-NLH, Norway)

208 (P70) Effects of the insecticide endosulfan on some phase 1 and phase 2 enzymes in gut-free tissues of the yellow mealworm (*Tenebrio molitor, linne*)
E Egaas, A Goksøyr, J U Skåre, N O Svendsen & E G Jensen (Ås-NLH, Norway)

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